

## Contents of volume 4

No. 1: pp 1- 58 published March 27, 1990  
 No. 2: pp 59-104 published June 29, 1990  
 No. 3: pp 105-162 published February 27, 1991  
 No. 4: pp 163-230 published April 15, 1991

Ahamad M, Dasgupta P, LeBlanc RJ:  
 Fault-tolerant atomic computations in  
 an object-based distributed system 69

Bar-Noy A, Dolev D: Consensus algo-  
 rithms with one-bit messages 105

Bar-Noy A, Naor J, Naor M: One-bit algo-  
 rithms 3

Brahmadathan K, Ramarao KVS:  
 Achieving graceful performance in  
 distributed error-prone databases 163  
 Brookes SD, Roscoe AW: Deadlock analy-  
 sis in networks of communicating pro-  
 cesses 209

Brown GM: Asynchronous multicaches  
 31

Coan BA, Lundelius Welch J: Transaction  
 commit in a realistic timing model 87  
 Cristian F: Reaching agreement on pro-

cessor-group membership in synchro-  
 nous distributed systems 175

Dasgupta P → Ahamad M  
 Dolev D → Bar-Noy A

Fekete AD: Asymptotically optimal algo-  
 rithms for approximate agreement 9

Goldman KJ: Highly concurrent logically  
 synchronous multicast 189

Grošelj B, Tropper C: The distributed sim-  
 ulation of clustered processes 111

Kessels JLW, Rem M: Designing systolic,  
 distributed buffers with bounded  
 response time 37

Lamport L: A theorem on atomicity in  
 distributed algorithms 59

LeBlanc RJ → Ahamad M  
 Lundelius Welch J → Coan BA

Naor J → Bar-Noy A

Naor M → Bar-Noy A

Nielsen M, Rozenberg G, Thiagarajan  
 PS: Behavioural notions for elementary  
 net systems 45

Ramarao KVS → Brahmadathan K

Rem M → Kessels JLW

Roscoe AW → Brookes SD

Rozenberg G → Nielsen M

Rukoz M: Hierarchical deadlock detection  
 for nested transactions 123

Schneider FB: Changing of the guard 1

Singhal M: A class of deadlock-free  
 Maekawa-type algorithms for mutual  
 exclusion in distributed systems 131

Thiagarajan PS → Nielsen M

Tropper C → Grošelj B

Vidyasankar K: Concurrent reading while  
 writing revisited 81

Vogler W: Failures semantics based on  
 interval semiwords is a congruence for  
 refinement 139

Indexed in *Current Contents*